

IN THE CLAIMS

1. (Currently Amended) A chemical decontamination method of chemically decontaminating radioactive nuclides from a metallic material contaminated by the radioactive nuclides, the method comprising the steps of:

injecting oxalic acid and hydrazine as a reductive decontaminating agent into water being in contact with the metallic material;

decontaminating the radioactive nuclides using the oxalic acid and hydrazine;

stopping the injecting step of the hydrazine after the hydrazine breaks through a cation resin arranged in a circulation line connected to the metallic material ~~breaks~~; and

decomposing at least the oxalic acid and the hydrazine in the reductive decontaminating agent using a decomposing catalyst after the decontaminating step is ended.

2. (Currently Amended) A chemical decontamination method as claimed in claim 1, further ~~comprises~~ comprising a step of:

introducing said water being in contact with metallic material into said cation resin.

3. (Previously Added) A chemical decontamination method as claimed in claim 2, wherein said step of introducing said water being in contact with metallic material into said cation resin is performed prior to said step of stopping the injection of the hydrazine.

4. (Previously Added) A chemical decontamination method as claimed in claim 1, wherein said decomposing step is performed after said step of stopping the injection of the hydrazine.

5. (Previously Added) A chemical decontamination method as claimed in claim 1, wherein H_2O_2 is injected into said water during said decomposing step.

6. (Currently Amended) A chemical decontamination method as claimed in claim 1, further-~~comprises~~ comprising a step of:

cleaning said water after said decomposing step.

7. (Currently Amended) A chemical decontamination method as claimed in claim 1, further-~~comprises~~ comprising a step of:

changing said cation resin after said decomposing step.

8. (Currently Amended) A chemical decontamination method of chemically decontaminating radioactive nuclides from a metallic material contaminated by the radioactive nuclides, the method comprising the steps of:

reductively decontaminating the radioactive nuclides from the metallic material by injecting oxalic acid and hydrazine as a reductive decontaminating agent into a circulation line connected to the metallic material;

stopping the injecting step of the hydrazine after the hydrazine breaks through a cation resin arranged in a circulation line connected to the metallic material ~~breaks~~; and

decomposing at least the oxalic acid and the hydrazine in the reductive decontaminating agent using a decomposing catalyst after the decontaminating step is ended.

9. (New) A chemical decontamination method as claimed in claim 1, wherein said step of injecting the hydrazine is stopped during the decontaminating step.